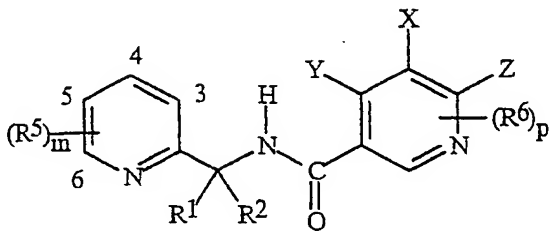
CLAIMS

What is claimed is:

1. A compound selected from Formula I, and *N*-oxides and agriculturally suitable salts thereof,



I

wherein

R^1 and R^2 are each independently H or C_1-C_6 alkyl;

X and either Y or Z are a linking chain 3 or 4 atoms in length attached to contiguous carbon atoms and are taken together with said carbon atoms to form a fused phenyl ring, a fused 5- or 6-membered nonaromatic carbocyclic or heterocyclic ring optionally including one or two ring members selected from the group consisting of C(=O), SO and $S(O)_2$, or a fused 5- or 6-membered heteroaromatic ring, each fused ring optionally substituted with one to three substituents independently selected from R^7;

each R^5 is independently C_1-C_6 alkyl, C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_3-C_6 cycloalkyl, C_1-C_6 haloalkyl, C_2-C_6 haloalkenyl, C_2-C_6 haloalkynyl, C_3-C_6 halocycloalkyl, halogen, CN, CO_2H, $CONH_2$, NO_2, hydroxy, C_1-C_4 alkoxy, C_1-C_4 haloalkoxy, C_1-C_4 alkylthio, C_1-C_4 alkylsulfinyl, C_1-C_4 alkylsulfonyl, C_1-C_4 haloalkylthio, C_1-C_4 haloalkylsulfinyl, C_1-C_4 haloalkylsulfonyl, C_1-C_4 alkylamino, C_2-C_8 dialkylamino, C_3-C_6 cycloalkylamino, C_2-C_6 alkylcarbonyl, C_2-C_6 alkoxycarbonyl, C_2-C_6 alkylaminocarbonyl, C_3-C_8 dialkylaminocarbonyl or C_3-C_6 trialkylsilyl;

each R^6 is independently C_1-C_6 alkyl, C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_3-C_6 cycloalkyl, C_1-C_6 haloalkyl, C_2-C_6 haloalkenyl, C_2-C_6 haloalkynyl, C_3-C_6 halocycloalkyl, halogen, CN, CO_2H, $CONH_2$, NO_2, hydroxy, C_1-C_4 alkoxy, C_1-C_4 haloalkoxy, C_1-C_4 alkylthio, C_1-C_4 alkylsulfinyl, C_1-C_4 alkylsulfonyl, C_1-C_4 haloalkylthio, C_1-C_4 haloalkylsulfinyl, C_1-C_4 haloalkylsulfonyl, C_1-C_4 alkylamino, C_2-C_8 dialkylamino, C_3-C_6 cycloalkylamino, C_2-C_6 alkylcarbonyl, C_2-C_6 alkoxycarbonyl, C_2-C_6 alkylaminocarbonyl, C_3-C_8 dialkylaminocarbonyl or C_3-C_6 trialkylsilyl;

each R^7 is independently C_1-C_4 alkyl, C_2-C_4 alkenyl, C_2-C_4 alkynyl, C_3-C_6 cycloalkyl, C_1-C_4 haloalkyl, C_2-C_4 haloalkenyl, C_2-C_4 haloalkynyl, C_3-C_6 halocycloalkyl, halogen, CN, NO_2, C_1-C_4 alkoxy, C_1-C_4 haloalkoxy, C_1-C_4 alkylthio, C_1-C_4 alkylsulfinyl, C_1-C_4 alkylsulfonyl, C_1-C_4 alkylamino, C_2-C_8 dialkylamino, C_3-C_6 cycloalkylamino, C_3-C_6 (alkyl)cycloalkylamino, C_2-C_4 alkylcarbonyl, C_2-C_6 alkoxycarbonyl, C_2-C_6 alkylaminocarbonyl, C_3-C_8 dialkylaminocarbonyl or C_3-C_6 trialkylsilyl;

m is 1, 2, 3 or 4; and

p is 0, 1, or 2.

2. The compound of Claim 1 wherein X and either Y or Z and the carbon atoms to which they are attached form a fused phenyl ring, a fused 5- or 6-membered nonaromatic carbocyclic ring or a fused 5- or 6-membered nonaromatic heterocyclic ring, each fused ring optionally substituted with one to three substituents independently selected from R^7.

3. The compound of Claim 2 wherein one R^5 is in the 3-position and a second R^5 is in the 5-position and said two R^5 groups are independently selected from the group consisting of C_1-C_6 alkyl, C_1-C_6 haloalkyl, halogen, CN, C_1-C_4 alkoxy, C_1-C_4 haloalkoxy, C_1-C_4 alkylthio, C_1-C_4 alkylsulfinyl, C_1-C_4 alkylsulfonyl, C_1-C_4 haloalkylthio, C_1-C_4 haloalkylsulfinyl and C_1-C_4 haloalkylsulfonyl.

4. The compound of Claim 3 wherein the R^5 in the 3-position is selected from halogen and the R^5 in the 5-position is selected from the group consisting of halogen, C_1-C_6 haloalkyl, C_1-C_4 haloalkoxy, C_1-C_4 haloalkylthio, C_1-C_4 haloalkylsulfinyl and C_1-C_4 haloalkylsulfonyl.

5. The compound of Claim 4 wherein the R^5 in the 3-position is selected from halogen and the R^5 in the 5-position is selected from the group consisting of halogen, C_1-C_6 haloalkoxy and C_1-C_6 haloalkyl.

6. The compound of Claim 5 wherein the R^5 in the 3-position is chloro and the R^5 in the 5-position is trifluoromethyl.

7. The compound of Claim 5 wherein the R^5 in the 3-position is chloro and the R^5 in the 5-position is selected from halogen or C_1-C_6 haloalkoxy.

8. The compound of Claim 1 wherein R^1 is H and R^2 is CH_3.

9. The compound of Claim 1 wherein each R^6 is independently selected from the group consisting of halogen, C_1-C_6 alkyl and C_1-C_6 haloalkyl.

10. The compound of Claim 1 which is selected from the group:

2,4-dichloro-*N*-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-5, 6, 7, 8-tetrahydro-3-quinolinecarboxamide;

N-[1-5-bromo-3-chloro-2-pyridinyl)ethyl]-3-chloro-4-isoquinolinecarboxamide; and

3-bromo-*N*-[1-(5-bromo-3-chloro-2-pyridinyl)ethyl]-4-isoquinolinecarboxamide; and

N-[1-(5-bromo-3-chloro-2-pyridinyl)ethyl]-3-fluoro-4-isoquinolinecarboxamide.

11. A fungicidal composition comprising a fungicidally effective amount of a compound of Claim 1 and at least one additional component selected from the group consisting of agriculturally suitable surfactants, solid diluents and liquid diluents.

12. A fungicidal composition comprising a fungicidally effective combination mixture of at least one compound of Claim 1 and at least one other fungicide.

13. The composition of claim 12 comprising (a) at least one compound of Formula I; and

(b) at least one compound selected from the group consisting of

(b1) alkylenebis(dithiocarbamate) fungicides;

(b2) compounds acting at the bc_1 complex of the fungal mitochondrial respiratory electron transfer site;

(b3) cymoxanil;

(b4) compounds acting at the demethylase enzyme of the sterol biosynthesis pathway;

(b5) morpholine and piperidine compounds that act on the sterol biosynthesis pathway;

(b6) phenylamide fungicides;

(b7) pyrimidinone fungicides;

(b8) phthalimides; and

(b9) fosetyl-aluminum.

14. The composition of claim 13 wherein the weight ratio of component (b) to component (a) is from 9:1 to 4.5:1.

15. A method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed or seedling, a fungicidally effective amount of a compound of Claim 1 or a composition thereof.

16. A method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed or seedling, a fungicidally effective amount of a composition of Claim 11.

17. A method of making the compound of Claim 10 consisting essentially of the procedure of Example 1.